

AMENDMENTS TO THE SPECIFICATION

Please add the following to the specification:

ABSTRACT

A system is employed to provide a substantially constant intensity light source via functional circuitry, the functional circuitry comprises a switching power supply. At least one signal is part of a matrix of LEDs connected in series and parallel and configured for redundancy. A monitoring circuit comprises a current sense circuit, wherein the current sense circuit includes an amplifier and at least one resistor in series with the amplifier. The current sense circuit includes a power converter circuit that senses a current of a flyback diode, recovers a dc component of a waveform via a low pass filter, and provides feedback control of the at least one signal.